

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A ~~method~~battery-powered system for acquiring and transmitting data between two or more ~~positions-or~~fixed locations relative to a detected condition and/or event in a plant, said ~~method~~system comprising ~~the steps~~:

- positioning ~~or locating~~ at least one detector in said plant to detect a condition or event at ~~[[a]] the fixed~~ plant ~~position-or~~ location;

- positioning at least one battery-powered radio frequency transmitter at a fixed location in said plant in electrical communication with said at least one fixed detector, said transmitter having a transmittable identification code and capable of transmitting ~~[[a]]~~ signals relative to said identification code, the detector, and the battery;

- ~~providing~~ a central processing location for receiving ~~[[a]]~~ signals from said fixed battery-powered transmitter relative to the identification code, a condition or event detected at a ~~position-or~~fixed location in said plant, and the battery; and

- ~~providing~~ at least one other transmitter in communication with said central processing location, said other transmitter capable of transmitting signals relative to a condition or event detected at a ~~position-or~~fixed location in said plant.

2. (Currently Amended) The ~~method~~system of Claim 1, further comprising ~~the step of positioning-or locating~~ at least one more detector and/or sensor to detect and/or sense a condition or event at a fixed plant ~~position-or~~ location.

3. (Currently Amended) The ~~method~~system of Claim 2, further comprising ~~positioning~~ at least one transmitter in communication with said at least one more detector and/or sensor.

4. (Currently Amended) The ~~method~~system of Claim 3, wherein the one battery-powered radio frequency transmitter is a spread spectrum transmitter.

5. (Currently Amended) The ~~method~~system of Claim 4, wherein the one battery-powered radio frequency transmitter is a 900 megahertz spread spectrum transmitter.

6. (Currently Amended) The ~~method~~system of Claim 1, wherein the one battery-powered radio frequency transmitter is a 900 megahertz spread spectrum transmitter and transmits on predetermined time intervals.

7. (Currently Amended) The ~~method~~system of Claim 1, wherein said at least one other transmitter comprises a radio frequency transmitter.

8. (Currently Amended) The ~~method~~system of Claim 7, wherein said at least one other transmitter comprises a spread spectrum radio frequency transmitter.

9. (Currently Amended) The ~~method~~system of Claim 8, wherein said at least one other transmitter comprises a 900 megahertz spread spectrum radio frequency transmitter.

10. (Currently Amended) The ~~method~~system of Claim 4, wherein said at least one other transmitter comprises a 900 megahertz spread spectrum radio frequency transmitter.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector ~~sensor~~ is positioned in communication with a pipe in said plant.
20. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector is positioned in communication with a valve in said plant.
21. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector is positioned in communication with an enclosure in said plant.
22. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector detects a temperature.
23. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector detects a pressure.
24. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector detects a level.
25. (Currently Amended) The ~~method~~system of Claim 21, wherein the at least one detector detects a level.

26. (Currently Amended) The ~~method~~system of Claim 23, further comprising at least a second detector in said plant, said second detector in electrical communication with at least one battery-powered radio frequency spread spectrum transmitter, said second detector detecting temperature.

27. (Currently Amended) The ~~method~~system of Claim 21, wherein the at least one detector detects emissions.

28. (Currently Amended) The ~~method~~system of Claim 21, wherein the at least one detector is an adsorption detector.

29. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector detects emissions.

30. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector is positioned in communication with a pipe enclosure.

31. (Currently Amended) The ~~method~~system of Claim 1, wherein the at least one detector is positioned in communication with a valve stuffing box enclosure.

32. (New) The system of Claim 1 wherein the at least one detector is operable when a voltage from the battery is applied thereto, and the at least one battery powered radio frequency transmitter is a 900 megahertz spread spectrum radio frequency transmitter, said transmitter transmitting signals on predetermined time intervals, and transmits, when appropriate a low batter transmission signal.

33. (New) A battery-powered system for monitoring and/or detecting events and/or conditions in a plant, said system comprising:
an exhaustible power source comprising a battery, said battery supplying a voltage;

a detector located at a fixed location in the plant, said detector operable when voltage is applied thereto and monitoring and/or detecting an event and/or a condition in the plant relating to an enclosure and/or an enclosed material in the plant;

a first transmitter located at a fixed location in the plant, said transmitter operable when voltage is applied thereto, said transmitter in electrical communication with the detector, the transmitter transmitting signals relating to an event and/or condition monitored and/or detected by the detector from a location in the plant, and said transmitter transmitting, when appropriate, a low battery signal;

a second exhaustible power source comprising a battery, said battery supplying a voltage;

a second transmitter located at another fixed location in the plant, said transmitter operable when a voltage is applied thereto by the second exhaustible power source, said transmitter transmitting signals relating to a monitored and/or detected event and/or condition in the plant, and said transmitter transmitting, when appropriate, a low battery signal; and

a central processing location for receiving said signals from said first and second transmitters.

34. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure and the enclosure is a pipe.

35. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure and the enclosure is a valve stuffing box.

36. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure.

37. (New) A system according to Claim 33, wherein the monitored and/or detected event or condition relates to an enclosed material.

38. (New) A system according to Claim 37, wherein the enclosed material is a liquid and the detector monitors and/or detects level.

39. (New) A system according to Claim 33, wherein the detector monitors and/or detects pressure.

40. (New) A system according to Claim 33, wherein the detector monitors and/or detects temperature.

41. (New) A system according to Claim 33, wherein the detector monitors and/or detects more than one event and/or condition.

42. (New) A system according to Claim 33, wherein the event and/or condition relates to an enclosure and the detector monitors and/or detects emissions from the enclosure.

43. (New) A system according to Claim 42, wherein the detector further monitors and/or detects temperature.